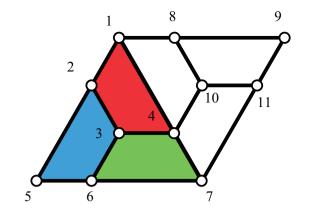
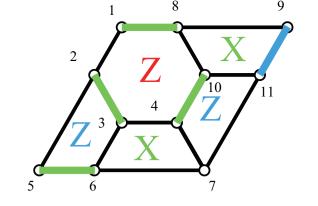


logical operator



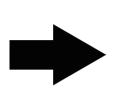




Surface Code へ変換

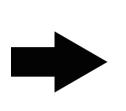
logical

operator

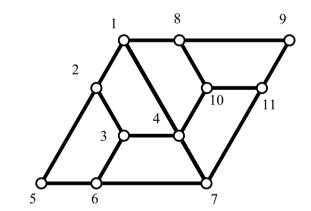


logical operator

		0	1	2	3	4	5	6	7	8	9	10	11
1		X	X	X			X						
	+	Z					Z	Z	Z				
`	. <u>+</u> +		X	X	X	X							
	+			X	X		X	X					
	+				X	X		X	X				
	+		Z	Z	Z	Z							
	+			Z	Z		Z	Z					
	+				Z	Z		Z	Z				
	+									Z			
	+										Z		
-	+											Z	
-	+												Z

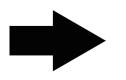


		0	1	2	3	4	5	6	7	8	9	10	11
	+	X	X	X			X						
	+	Z					Z	Z	Z				
	+		X							X			
	+			X	X								
-	+					X						X	
_	+						X	X					
	+									X	X	X	X
	+				X	X		X	X				
-	+										Z		Z
_	+			Z	Z		Z	Z					
	+					Z			Z			Z	Z
	+		Z	\overline{Z}	Z	Z				Z		Z	



		0	1	2	3	4	5	6	7	8	9	10	11
logical	+	X	X										
operator	$\overline{+}$	Z	Z										
	<u>+</u>			Z									
	+				Z								
	+					Z							
	+						Z						
	+							Z					
	+								Z				
	+									Z			
	+										Z		
•	+											Z	
•	+												Z





			5	5		6				7			
								_					
		0	1	2	3	4	5	6	7	8	9	10	11
ıl /	+	X	X	X			X						
tor (+	Z					Z	Z	Z				
`	+		X							X			
	+			X	X								
	+					X						X	
	+						X	X					
_	+									X	\mathbf{X}	X	X
	+				X	X		X	X				
_	+										Z		\mathbb{Z}
	+			Z	Z		Z	Z					
	+					Z			Z			Z	Z
_	+		Z	Z	Z	Z				Z		Z	